

**2017**

**M.Sc.**

**1st Semester Examination**

**BOTANY**

**PAPER—BOT-103**

**Subject Code—23**

*Full Marks : 40*

*Time : 2 Hours*

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

*Illustrate the answers wherever necessary.*

*Answer all questions.*

**Unit - I**

**(Mycology)**

**[Marks : 20]**

**1. Answer any four questions of the following :**

**1×4**

(a) What is aflatoxin G ?

(b) What is a sporocarp ?

*(Turn Over)*

- (c) Name the fungal source of tryptophan which is used commercially.
- (d) Name a fungus forming perithecium.
- (e) What is puffing ?
- (f) What is an operculum ?
- (g) What is macrocyclic life cycle ?
2. Write notes on any *two* of the following : 3×2
- (a) Quorn ;
- (b) Choanozoa ; and
- (c) Reproduction in yeast.
3. Answer any *one* of the following : 10×1
- (a) Explain the mode of action of aflatoxins. Describe the discharge mechanism of spores in *Sphaerobolus stellatus*.  
5+5
- (b) Characterize the phyla Labyrinthulomycota and Oomycota with examples. 5+5

**Unit - II**  
**(Plant Pathology)**

[Marks : 20]

4. Answer any *four* of the following : 1×4
- (a) In which year the plant quarantine laws was first enacted ?
  - (b) Who identified spiroplasma as causal agent of corn stunt ?
  - (c) Name the causal agent of wilt of pigeon pea ?
  - (d) Name a growth inhibiting substance.
  - (e) What is atrophy ?
  - (f) What is INA ?
  - (g) What is infection peg ?
5. Write short notes on any *two* of the following : 3×2
- (a) Yoji Doi ;
  - (b) Ricketts ; and
  - (c) Plantibodies.

6. Answer any *one* of the following : 10×1
- (a) Write the symptoms and control measures of scab of potato and blast of rice. 5+5
- (b) Briefly describe the control of plant diseases by eradication. 10
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